

DERWENT-ACC-NO: 1992-066035
DERWENT-WEEK: 199721
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TITLE: Vehicle engine spin-on-filter - comprises cellulose and/or glass fibre, wool, propylene!, etc., bound with plastic to form pores converging in flow direction

INVENTOR: KIWIOR, D; WEBER, R

PATENT-ASSIGNEE: WEBER R[WEBEI], KIWIOR D[KIWII]

PRIORITY-DATA: 1990DE-4036551 (November 16, 1990) ,
1990DE-4025693 (August 14, 1990)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
DE 4036551 C2	April 24, 1997	N/A
006	B01D 027/04	
DE 4036551 A	February 20, 1992	N/A
000	N/A	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
DE 4036551C2	N/A	1990DE-4036551
November 16, 1990		
DE 4036551A	N/A	1990DE-4036551
November 16, 1990		

INT-CL (IPC): B01D027/02; B01D027/04

RELATED-ACC-NO: 1992-066033

ABSTRACTED-PUB-NO: DE 4036551A

BASIC-ABSTRACT: Spin-on-filters made of fibrous materials used in motor vehicles have to be exchanged complete with their housing when expired. Fibres used are microfibres which are bound together by plastic resin or welded

together to form pores which converge in the direction of flow.

A filter membrane is located on the exhaust side of the filter cartridge, on which the pores with the smallest dia. are found. The pores between the microfibrils are at their smallest at minimum distance from the central axis. The microfibrils are made of chopped cellulose and/or: glass fibre, wool, acrylic fibre, visco fibre, polypropylene, polyethylene and are impregnated with methyl silicone.

USE/ADVANTAGE - When a filter cartridge is exchanged, it is unnecessary to exchange a filter housing and that there is thus no disposal problem (claimed).

CHOSEN-DRAWING: Dwg.1/2

TITLE-TERMS:

VEHICLE ENGINE SPIN FILTER COMPRISE CELLULOSE GLASS FIBRE
WOOL POLYPROPYLE NE
BOUND PLASTIC FORM PORE CONVERGE FLOW DIRECTION

DERWENT-CLASS: J01

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1992-030269

DERWENT-ACC-NO: 1990-369469
DERWENT-WEEK: 199050
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TITLE: Thermo-formable air-permeable coherent glass filter
cloth - with resin
binder contains chopped strand fibre and glass wool, useful
as embossed folded
air filter

INVENTOR: PORTER, K W

PATENT-ASSIGNEE: HOLLINGSWORTH & VOSE CO[HOVO],
HOLLINGWORTH & VOSEE
CO[HOLLN]

PRIORITY-DATA: 1989US-0360001 (June 1, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
DE 4017184 A	December 6, 1990	N/A
000	N/A	
CA 2018015 A	December 1, 1990	N/A
000	N/A	
FR 2647692 A	December 7, 1990	N/A
000	N/A	
GB 2234251 A	January 30, 1991	N/A
000	N/A	
JP 03101804 A	April 26, 1991	N/A
000	N/A	
SE 9001965 A	December 2, 1990	N/A
000	N/A	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
DE 4017184A	N/A	1990DE-4017184
May 29, 1990		
FR 2647692A	N/A	1990FR-0006784
May 31, 1990		
GB 2234251A	N/A	1990GB-0012215
June 1, 1990		
JP03101804A	N/A	1990JP-0140144
May 31, 1990		

INT-CL (IPC): B01D039/08; B01D046/52 ; B29C053/22 ;
B29C059/00 ;
C08K007/14 ; C08L027/06 ; C08L033/00 ; D04H001/42 ;
D06C023/04

ABSTRACTED-PUB-NO: DE 4017184A

BASIC-ABSTRACT: Thermoformable, air-permeable, coherent filter cloth consists of a glass fibre mixt. (I) of 5-35 (wt.)% chopped strand fibres (IA) with an average fibre length of 3-19 mm and average dia. of 6-20 microns, rest glass wool (IB) with a length of 0.1-5 mm and dia. of 0.2-6 microns; and a thermoplastic polymeric binder (II), which can be crosslinked by heating above 137.8 deg.C. The amt. of (II) is 2-30% w.r.t. (I). The cloth is 0.0305-0.102 cm thick and has a tensile strength of 0.452-2.825 J in the machine direction (MD) and 0.226-1.356 J in the crosswise direction (CD) and a basis wt. of 18.12-45.3 kg/278.7 m².

The cloth pref. has an elongation of min. 2% without breaking or tearing during embossing at 93.3 deg.C over a 2 mm high and 8.5 mm wide circle and retains a permanent set of min. 1% in this embossing after crosslinking and cooling to room temp. (I) consists of 8-15% (IA), pref. with a length of 6-13 mm, rest (IB) pref. with a length of 1-3 mm. The (II) fraction is 3-6%. The cloth has a basis wt. of 24.91-33.98 kg/278.71 m², permanent set of 1-5% thickness of 0.0305-0.0762 cm and Gurley stiffness (MD) of min. 1500 mg.

USE/ADVANTAGE - The cloth can be embossed and folded to form an air filter.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

THERMO FORMING AIR PERMEABLE COHERE GLASS FILTER CLOTH
RESIN BIND CONTAIN CHOP
STRAND FIBRE GLASS WOOL USEFUL EMBOSS FOLD AIR FILTER

DERWENT-CLASS: A88 J01

CPI-CODES: A11-C02; A12-H04; J01-H;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0209 0231 0495 0761 0838 2020 2198 2430 2435

2488 2493 2504 2667

3256 2682 2703 2724

Multipunch Codes: 014 034 04- 061 062 063 071 074 076 081

231 27& 359 397 431

436 441 446 473 477 540 58& 604 608 609 664 666

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1990-160682